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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,424	09/21/2001	Junya Watanabe	14944	5559
23389	7590 06/27/2005		EXAM	INER
	COTT MURPHY & PRE	REVAK, CHR	REVAK, CHRISTOPHER A	
400 GARDEN SUITE 300	I CITY PLAZA	ART UNIT	PAPER NUMBER	
	ΓY, NY 11530		2131	
•			DATE MAILED: 06/27/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/960,424	WATANABE, JUNYA			
Office Action Summary	Examiner	Art Unit			
	Christopher A. Revak	2131			
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RETURN THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properture - Failure to reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a report. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>06 December 2004</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for all	· · · · · · · · · · · · · · · · · · ·	• •			
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims		·			
4) Claim(s) 1-12 is/are pending in the applica	ation.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
o/ Claim(s) are subject to restriction as	no/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>21 Se<i>ptember</i> 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to		·			
Replacement drawing sheet(s) including the co	, , , , , , , , , , , , , , , , , , , ,	, ,			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu	nents have been received. nents have been received in Ap priority documents have been r	oplication No			
* See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	eceived.			

Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date see attached.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

Paper No(s)/Mail Date.

5) Notice of Informal Patent Application (PTO-152)
Other:

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d).

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 101

- 3. 35 U.S.C. 101 reads as follows:
 - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 4. Claims 11 and 12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims currently recite of a program not tangibly embodied which is just software alone and of itself. The examiner suggests amending the claims so that the program is embodied on a computer readable storage device.

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1,2,5,6, and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Venkatesan et al, U.S. Patent 6,801,999.

As per claim 1, it is disclosed by Venkatesan et al of a digital contents generating apparatus that comprises an electronic watermark data output unit for outputting predetermined electronic watermark data. An electronic watermark data embedding unit for embedding the electronic watermark data output by the electronic watermark data output unit in digital contents. An encryption key generating unit generates an encryption key based on the electronic watermark and a predetermined IP address. An encryption unit encrypts the digital contents embedded with electronic watermark by means of the generated encryption key and outputting the encrypted digital contents to a communication network. A decryption unit generating unit generates, on the basis of the electronic watermark data and IP data received from the communication network, a decryption key for the decryption of the encrypted digital contents and outputting the decryption key to the communication network (col. 18, lines 62-67 and col. 33, line 39 through col. 34, line 7).

As per claim 2, Venkatesan et al teaches of an encryption unit that stores the encrypted contents in a data storage medium (col. 18, lines 62-67).

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As per claim 5, Venkatesan et al discloses of a digital content reproducing apparatus comprising an electronic watermark data extraction unit for receiving encrypted digital contents embedded with electronic watermark data from a communication network and extracts the electronic watermark data from the encrypted digital contents. A decryption unit decrypts the encrypted digital contents by means of a decryption key. A reproducing unit reproduces an output of the decryption unit and displays a reproduced output on a display unit. A network interface unit outputs extracted electronic watermark data and a predetermined IP address to the communication network and receives the decryption key from the communication network (col. 33, line 39 through col. 34, line 7).

As per claim 6, Venkatesan et al teaches of an electronic watermark data extraction unit receives the encrypted digital contents embedded with electronic watermark data from a data storage medium (col. 18, lines 62-67).

As per claim 9, Venkatesan et al discloses of a digital contents providing system comprising a communication network, a digital contents generating apparatus and a digital contents reproducing apparatus. The digital contents generating apparatus and digital contents reproducing apparatus being inter-connected via said communication network. The digital contents generating apparatus comprise an electronic watermark-data output unit for outputting predetermined electronic watermark data. An electronic watermark data embedding unit for embedding the electronic watermark data received

from the electronic watermark data output unit in digital contents. An encryption key generating unit for generating an encryption key on the basis of said electronic watermark data and a predetermined IP address. An encryption unit for encrypting the digital contents in which said electronic watermark data has been embedded, by means of the generated encryption key. A decryption-key generating unit for generating a decryption key for decrypting, on the basis of said electronic watermark data and said IP address received from said communication network, the encrypted digital contents, and outputting the decrypted digital contents to the communication network. The digital contents reproducing apparatus comprise an electronic watermark data extraction unit for receiving the encrypted digital contents from the communication network and extracting the electronic watermark data from the encrypted digital contents. A decryption unit for receiving the decryption key from the communication network, and decrypting the encrypted digital contents by means of the decryption key. A reproducing unit for reproducing an output of the decryption unit and displaying a reproduced output on a display unit. Means for outputting the extracted electronic watermark data and the predetermined IP address to the communication network (col. 18, lines 62-67 and col. 33, line 39 through col. 34, line 7).

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As per claim 10, Venkatesan et al discloses of a digital contents providing system comprising a communication network, a digital contents generating apparatus and a digital contents reproducing apparatus. The digital contents generating apparatus and the digital contents reproducing apparatus being inter-connected via the communication network. The digital contents generating apparatus comprise an electronic watermark

data output unit for outputting predetermined electronic watermark data. An electronic watermark data embedding unit for embedding the electronic watermark data received from the electronic watermark data output unit in digital contents. An encryption key generating unit for generating an encryption key on the basis of the electronic watermark data and a predetermined IP address. An encryption unit for encrypting the digital contents in which the electronic watermark data has been embedded, by means of the generated encryption key, and outputting the encrypted digital contents to a data storage medium. A decryption-key generating unit for generating, on the basis of the electronic watermark data and IP address received from the communication network, a decryption key for the decryption of the encrypted digital contents, and outputting the decryption key to the communication network. The digital contents reproducing apparatus comprise an electronic watermark data extraction unit for receiving the encrypted digital contents from the data storage medium and extracting the electronic watermark data from said encrypted digital contents. A decryption unit for receiving the decryption key from the communication network and decrypting the encrypted digital contents by means of said decryption key. A reproducing unit for reproducing an output of the decryption unit and displaying a reproducing output on a display unit and means for outputting the extracted electronic watermark data and the predetermined IP address to the communication network (col. 18, lines 62-67 and col. 33, line 39 through col. 34, line 7).

As per claim 11, Venkatesan et al teaches of a program for carrying out steps for the embedding of electronic watermark data in digital contents by the use of a computer system including a processor and a memory unit. An encryption key is generated on the basis of the electronic watermark data and a predetermined IP address. Encrypting digital contents embedded with the electronic watermark data, by means of the encryption key and outputting the encrypted digital contents to a communication network. Generating, on the basis of the electronic watermark data and IP address received from the communication network, a decryption key for the decryption of the encrypted digital contents, and outputting the decryption key to said communication network (col. 18, lines 62-67 and col. 33, line 39 through col. 34, line 7).

As per claim 12, it is taught by Venkatesan et al of a program for carrying out steps for extracting electronic watermark data from digital contents embedded with the electronic watermark data by the use of a computer system including a processor, memory unit and display means and displaying the digital contents by said display means. Encrypted digital contents are received with an embedded electronic watermark data from a communication network and extracting the electronic watermark data from the encrypted digital contents. Decrypting the encrypted digital contents by means of a decryption key. Reproducing the decrypted digital contents and outputting a reproduced digital contents to the display means, outputting the electronic watermark data and a predetermined IP address to the communication network, and receiving said decryption key from the communication network (col. 18, lines 62-67 and col. 33, line 39 through col. 34, line 7).

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Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 3,4,7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatesan et al, U.S. Patent 6,801,999 in view of Wu et al, U.S. Patent 6,700,991.

As per claim 3, it is disclosed by Venkatesan et al of a digital contents generating apparatus that comprises an electronic watermark data output unit for outputting predetermined electronic watermark data. An electronic watermark data embedding unit for embedding the electronic watermark data output by the electronic watermark data output unit in digital contents. An encryption key generating unit generates an encryption key based on the electronic watermark and a predetermined IP address. An encryption unit encrypts the digital contents embedded with electronic watermark by means of the generated encryption key and outputting the encrypted digital contents to a communication network. A decryption unit generating unit generates, on the basis of the electronic watermark data and IP data received from the communication network, a decryption key for the decryption of the encrypted digital contents and outputting the decryption key to the communication network (col. 33, line 39 through col. 34, line 7). The teachings of Venkatesan et al are silent in disclosing of the use of discrete cosine transformation unit, or DCT unit, to generate DCT coefficients. It is disclosed by Wu et

al of using discrete cosine transformation unit, or DCT unit, to generate DCT coefficients (col. 2, lines 10-26). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to apply discrete cosine transformations used for watermarking data. Wu et al discloses motivation for the use of discrete cosine transformations by reciting of the need to increase invisibility of the watermark (col. 2, lines 61-65). It is obvious that the teachings of Venkatesan et al. would have found the teachings of Wu et al beneficial as a further means of protecting watermarked content.

As per claim 4, Venkatesan et al teaches of an encryption unit that stores the encrypted contents in a data storage medium (col. 18, lines 62-67).

As per claim 7, Venkatesan et al discloses of a digital content reproducing apparatus comprising an electronic watermark data extraction unit for receiving encrypted digital contents embedded with electronic watermark data from a communication network and extracts the electronic watermark data from the encrypted digital contents. A decryption unit decrypts the encrypted digital contents by means of a decryption key. A reproducing unit reproduces an output of the decryption unit and displays a reproduced output on a display unit. A network interface unit outputs extracted electronic watermark data and a predetermined IP address to the communication network and receives the decryption key from the communication network (col. 33, line 39 through col. 34, line 7). The teachings of Venkatesan et al are silent in disclosing of an inverse DCT unit for performing inverse discrete cosine transformations. It is disclosed by Wu et al of inverse DCT unit for performing inverse

discrete cosine transformations (col. 2, lines 10-26). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to apply performing inverse discrete cosine transformations. Wu et al discloses motivation for the use of inverse discrete cosine transformations by reciting of the need to increase invisibility of the watermark (col. 2, lines 61-65). It is obvious that the teachings of Venkatesan et al would have found the teachings of Wu et al beneficial as a further means of protecting watermarked content.

As per claim 8, Venkatesan et al teaches of an electronic watermark data extraction unit receives the encrypted digital contents embedded with electronic watermark data from a data storage medium (col. 18, lines 62-67).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Revak whose telephone number is 571-272-3794. The examiner can normally be reached on Monday-Friday, 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Christopher Revak

AU 2131

June 22, 2005